

## PATENT ABSTRACTS OF JAPAN

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**(54) DEVICE AND METHOD FOR RADIO COMMUNICATION**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To perform radio communication at a transmission rate meeting desired communication quality in accordance with propagation path loss by considering the entire line capacity of a service area.

**SOLUTION:** A transmission power deciding part 105 decides a transmission power value in the communication with a self-station so as not to be interference with the communication with another station on the basis of a transmission power value in the communication with the other station, an SIR measuring part 103 measures SIR (desired wave-to-interference potential power ratio) about a known reference signal in a received signal, and a transmission rate deciding part 109 decides a transmission rate value meeting desired communication quality according to the decided transmission power value and the measured SIR value.

